

INTEGRATED PHYSIOLOGY (IPHY)

IPHY 6001 - Human Physiology (4 Credits)

This course in Physiology is designed to provide an understanding of the functions of cells, tissues, and organs in the human body and the overall integration of organ functions in the body as a whole. Course restrictions: B.A. or B.S. including Biology, Chemistry and Physics
Grading Basis: Letter Grade
A-GRAD Restricted to graduate students only.
Typically Offered: Spring.

IPHY 7650 - Research in Integrated Physiology (1-10 Credits)

Research work in Integrated Physiology. Prerequisite: Consent of Instructor.
Grading Basis: Letter Grade with IP
Repeatable. Max Credits: 99.
A-GRAD Restricted to graduate students only.
Typically Offered: Fall, Spring, Summer.

IPHY 7651 - Reading & Evaluating the Clinical Literature (2 Credits)

Interactive seminar introduces key concepts in clinical study design, basic statistics, & clinical research assessment. Become familiar with clinical study types; rigorously assess the literature; and appreciate how to incorporate clinical data in bench research. Requires presentations, manuscript review, and discussion. Pre-Req: Successful completion of the first year of PhD courses or two years of MSTP training.
Grading Basis: Letter Grade
Typically Offered: Fall.

IPHY 7652 - Special Topics in Integrated Physiology (1-3 Credits)

This course provides instruction in a specialized area of Integrated Physiology. Course content and the extent of the course varies from year to year. Prerequisite: Enrollment in PhD Program in Graduate School.
Grading Basis: Letter Grade
Repeatable. Max Credits: 3.
A-GRAD Restricted to graduate students only.
Typically Offered: Fall, Spring, Summer.

IPHY 7800 - Comprehensive Physiology (6 Credits)

The course will provide an understanding of the function, regulation and integration of human organ systems. Content will include introductory to cell physiology and all major organ systems and will be taught by experts in each organ system.
Grading Basis: Letter Grade
Typically Offered: Spring.

IPHY 7801 - Molecular Mechanisms of Reproductive Endocrinology and Metabolism (3 Credits)

Endocrine systems will be covered from the molecule to the systems level. Pituitary secretions actions/ regulation, regulation of water, ion, calcium balance, regulation of metabolism including insulin secretion/action will be discussed, the context of normal physiology, the mechanisms of endocrine dysfunction. Prereq: Core courses IDPT 7811, 7812, 7813, 7814, 7815. Restrictions: CU-AMC Graduate students; others by permission of the Course Director.
Grading Basis: Letter Grade
A-GRAD Restricted to graduate students only.
Typically Offered: Spring.

IPHY 7802 - Grant Proposal Writing (1 Credit)

This course is a practical workshop in grant-writing culminating in a student-led mock review panel including course participants. Students will examine various proposal types/formats, then write their own proposal in the format of an NIH NRSA fellowship application. Pre-Requirement: Students with adequate physiology background.
Grading Basis: Letter Grade
Typically Offered: Spring.

IPHY 7840 - Advanced Topics in Cell Signaling (1 Credit)

Students select topics of interest in the area of cell signaling and receive one-on-one instruction from expert faculty. Each one-credit topic will be taught for 5 weeks. Course work will include reading and discussing papers as well as practical exercises. Prereq: Consent of Instructor
Grading Basis: Letter Grade
Repeatable. Max Credits: 9.
A-GRAD Restricted to graduate students only.
Typically Offered: Fall, Spring, Summer.

IPHY 8990 - Doctoral Thesis (1-10 Credits)

Doctoral thesis work in physiology.
Grading Basis: Letter Grade with IP
Repeatable. Max Credits: 99.
A-GRAD Restricted to graduate students only.
Additional Information: Report as Full Time.
Typically Offered: Fall, Spring, Summer.